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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2022-07-01-01 Date: 19/07/2022

roject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

gency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ustomer's Reference : BBMP/EE/BTP/WO/01/2021-22

ate of Receipt : 23-06-2022

ustomer ID : Cement Concrete Pavement - 4th Cross Road

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

te of test : 19/07/2022

| L. o. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 151.58 X 149.32 X 150.08 | 22634 | 8.481 | 762.4 | 33.7 | 32.9 |
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.39 X 149.19 X 149.79 | 22287 | 8.186 | 713.6 | 32.0 | |
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 149.57 X 149.06 X 151.51 | 22295 | 8.205 | 736.4 | 33.0 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 28/06/2022**

**Name** : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

**er's Reference** : BBMP/EE/BTP/WO/01/2021-22

**Receipt** : 23-06-2022

**er ID** : Cement Concrete Pavement - 4th Cross Road

**Type /Size** : 150X150X150 mm

**grade/Age** : M30 / 7 Days Compressive Strength

**ıce to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

**test** : 28/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 149.05 X 149.54 X 149.66 | 22288 | 9.061 | 563.2 | 25.3 | 25.3 |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 151.72 X 149.30 X 151.43 | 22651 | 8.559 | 601.0 | 26.5 | |
| Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 28/06/2022 | 150.26 X 151.07 X 151.13 | 22699 | 8.648 | 548.9 | 24.2 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2022-07-01-01 Date: 19/07/2022

oject Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

ency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

stomer's Reference : BBMP/EE/BTP/WO/01/2021-22

te of Receipt : 23-06-2022

stomer ID : Cement Concrete Pavement - 4th Cross Road

mple Type /Size : 150X150X150 mm

mple grade/Age : M30 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 19/07/2022

| | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 151.58 X 150.20 X 151.32 | 22767 | 8.508 | 759.9 | 33.4 | 33.1 |
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 150.07 X 149.64 X 150.72 | 22456 | 8.590 | 740.6 | 33.0 | |
| | Cement Concrete Pavement - 4th Cross Road | M30 | 21/06/2022 | 19/07/2022 | 151.93 X 151.71 X 150.84 | 23049 | 8.793 | 762.7 | 33.1 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 Date: 30/06/2022

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ner's Reference : BBMP/EE/BTP/WO/01/2021-22

Receipt : 25-06-2022

ner ID : Cement Concrete Pavement - 5th Cross Road

Type /Size : 150X150X150 mm

grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 30/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.91 X 151.73 X 151.56 | 22898 | 8.629 | 594.1 | 25.9 | 25.7 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.01 X 149.94 X 151.58 | 22493 | 9.097 | 592.6 | 26.3 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 149.79 X 151.75 X 149.57 | 22730 | 8.893 | 563.5 | 24.8 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager


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# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-07-01-01 Date: 21/07/2022

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 25-06-2022

Customer ID : Cement Concrete Pavement - 5th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 149.44 X 151.67 X 149.04 | 22666 | 8.226 | 761.1 | 33.6 | 33.2 |
| | Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 150.65 X 149.83 X 149.34 | 22571 | 8.724 | 730.7 | 32.4 | |
| | Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 149.76 X 149.40 X 150.66 | 22375 | 8.768 | 751.4 | 33.6 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP - Bangalore-560024



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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 30/06/2022** |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 25-06-2022 |
| omer ID | : | Cement Concrete Pavement - 5th Cross Road |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 7 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 30/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.10 X 151.38 X 149.17 | 22722 | 8.723 | 585.3 | 25.8 | 25.4 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.27 X 150.58 X 150.00 | 22628 | 8.967 | 596.9 | 26.4 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 151.18 X 151.52 X 149.69 | 22907 | 8.843 | 552.7 | 24.1 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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# TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2022-07-01-01 Date: 21/07/2022

ect Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

ıcy : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

omer's Reference : BBMP/EE/BTP/WO/01/2021-22

of Receipt : 25-06-2022

omer ID : Cement Concrete Pavement - 5th Cross Road

ple Type /Size : 150X150X150 mm

ple grade/Age : M30 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

of test : 21/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 151.80 X 151.12 X 150.74 | 22940 | 9.074 | 766.7 | 33.4 | 32.9 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 151.61 X 149.89 X 149.90 | 22725 | 8.316 | 730.4 | 32.1 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 151.66 X 151.06 X 150.61 | 22910 | 8.213 | 762.5 | 33.3 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬಾಪಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 30/06/2022**

ame : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

r's Reference : BBMP/EE/BTP/WO/01/2021-22

teceipt : 25-06-2022

r ID : Cement Concrete Pavement - 5th Cross Road

Type /Size : 150X150X150 mm

rade/Age : M30 / 7 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

est : 30/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm$^2$) | Average Compressive Strength (N/mm$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete vement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 151.73 X 151.29 X 151.41 | 22956 | 8.163 | 578.9 | 25.2 | 25.4 |
| Cement Concrete vement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.81 X 150.66 X 150.52 | 22721 | 9.033 | 608.6 | 26.8 | |
| Cement Concrete vement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 150.78 X 149.74 X 149.74 | 22579 | 8.577 | 548.1 | 24.3 | |

ults obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024

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Quality Manager


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| D | : | CP-2022-07-01-01 |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 25-06-2022 |
| mer ID | : | Cement Concrete Pavement - 5th Cross Road |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M30 / 28 Days Compressive Strength |
| nce to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 21/07/2022 |

Date: 21/07/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 151.85 X 149.93 X 150.55 | 22766 | 8.799 | 764.1 | 33.6 | 33.2 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 150.09 X 151.62 X 150.03 | 22757 | 8.796 | 746.1 | 32.8 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 151.03 X 151.25 X 151.55 | 22842 | 8.672 | 757.3 | 33.2 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
Bangalore-560024


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 30/06/2022**

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ner's Reference : BBMP/EE/BTP/WO/01/2021-22

f Receipt : 25-06-2022

ner ID : Cement Concrete Pavement - 5th Cross Road

e Type /Size : 150X150X150 mm

e grade/Age : M30 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 30/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 151.33 X 151.40 X 151.48 | 22911 | 8.711 | 579.5 | 25.3 | 25.5 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 151.19 X 150.37 X 149.39 | 22735 | 8.694 | 599.7 | 26.4 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 30/06/2022 | 149.04 X 149.11 X 149.47 | 22224 | 8.868 | 555.0 | 25.0 | |

esults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 **Date: 21/07/2022** |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ıcy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 25-06-2022 |
| omer ID | : | Cement Concrete Pavement - 5th Cross Road |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M30 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 21/07/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 149.33 X 151.62 X 150.57 | 22642 | 8.595 | 763.1 | 33.7 | 33.5 |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 149.34 X 150.11 X 151.69 | 22417 | 8.389 | 738.0 | 32.9 | |
| Cement Concrete Pavement - 5th Cross Road | M30 | 23/06/2022 | 21/07/2022 | 149.13 X 150.39 X 151.59 | 22427 | 8.292 | 760.2 | 33.9 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Assistant Executive Engineer

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2022-07-01-01 **Date: 05/05/2022**

Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

ner's Reference : BBMP/EE/BTP/WO/01/2021-22

Receipt : 30-04-2022

ner ID : Drain Bottom Raft - Urdu School Road (Anam Enclave)

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

test : 05/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm²) | Average Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 151.15 X 151.61 X 151.90 | 22917 | 8.566 | 421.8 | 18.4 | 18.5 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 151.36 X 149.77 X 150.83 | 22668 | 8.932 | 426.1 | 18.8 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 150.87 X 149.89 X 150.03 | 22613 | 8.249 | 416.2 | 18.4 | |

esults obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| D | : | CP-2022-07-01-01 Date: 26/05/2022 |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 30-04-2022 |
| mer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M20 / 28 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 26/05/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 149.23 X 150.32 X 150.88 | 22432 | 8.604 | 537.2 | 23.9 | 23.2 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.58 X 150.31 X 151.45 | 22784 | 8.544 | 515.1 | 22.6 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 149.59 X 149.71 X 151.93 | 22396 | 8.463 | 517.1 | 23.1 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : | CP-2022-07-01-01 Date: 05/05/2022 |
| t Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| y | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| ner's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| f Receipt | : | 30-04-2022 |
| mer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| e Type /Size | : | 150X150X150 mm |
| e grade/Age | : | M20 / 7 Days Compressive Strength |
| nce to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| f test | : | 05/05/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 150.24 X 149.14 X 151.75 | 22407 | 8.993 | 403.8 | 18.0 | 18.3 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 149.63 X 150.60 X 150.67 | 22535 | 8.823 | 420.5 | 18.7 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 150.69 X 150.80 X 151.64 | 22725 | 8.510 | 414.9 | 18.3 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| ID | : | CP-2022-07-01-01 |
| ect Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| omer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 30-04-2022 |
| omer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| ple Type /Size | : | 150X150X150 mm |
| ple grade/Age | : | M20 / 28 Days Compressive Strength |
| rence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 26/05/2022 |

Date: 26/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.21 X 149.22 X 150.83 | 22563 | 8.831 | 526.0 | 23.3 | 23.1 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 150.97 X 149.36 X 149.00 | 22549 | 9.017 | 504.6 | 22.4 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.80 X 151.73 X 149.20 | 23032 | 8.918 | 541.1 | 23.5 | |

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560026

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| D | : | CP-2022-07-01-01 **Date: 05/05/2022** |
| ct Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| cy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| mer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| of Receipt | : | 30-04-2022 |
| mer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| le Type /Size | : | 150X150X150 mm |
| le grade/Age | : | M20 / 7 Days Compressive Strength |
| ence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| of test | : | 05/05/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 151.88 X 150.13 X 151.08 | 22803 | 8.366 | 421.0 | 18.5 | 18.3 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 151.94 X 150.34 X 150.43 | 22842 | 8.117 | 412.0 | 18.0 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 151.86 X 149.26 X 149.62 | 22666 | 8.983 | 415.5 | 18.3 | |

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager


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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

| | | |
|---|---|---|
| , ID | : | CP-2022-07-01-01 |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ncy | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 30-04-2022 |
| tomer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| nple Type /Size | : | 150X150X150 mm |
| nple grade/Age | : | M20 / 28 Days Compressive Strength |
| erence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| e of test | : | 26/05/2022 |

| | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.99 X 151.52 X 151.92 | 23030 | 9.020 | 551.1 | 23.9 | 23.6 |
| | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 150.03 X 150.84 X 149.79 | 22631 | 8.343 | 518.7 | 22.9 | |
| | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.18 X 151.21 X 150.48 | 22860 | 8.376 | 548.1 | 24.0 | |

e results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager



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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/05/2022

| | | |
|---|---|---|
| b ID | : | CP-2022-07-01-01 |
| ject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| tomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| e of Receipt | : | 30-04-2022 |
| tomer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| nple Type /Size | : | 150X150X150 mm |
| nple grade/Age | : | M20 / 7 Days Compressive Strength |
| erence to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| e of test | : | 05/05/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 150.30 X 150.64 X 150.95 | 22642 | 8.311 | 413.7 | 18.3 | 18.3 |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 149.61 X 149.21 X 151.62 | 22324 | 8.998 | 403.4 | 18.1 | |
| Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 05/05/2022 | 150.98 X 150.16 X 149.07 | 22671 | 8.167 | 421.2 | 18.6 | |

: results obtained are satisfactory as per standard requirements.

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Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/05/2022

| | | |
|---|---|---|
| ab ID | : | CP-2022-07-01-01 |
| oject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| gency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| te of Receipt | : | 30-04-2022 |
| stomer ID | : | Drain Bottom Raft - Urdu School Road (Anam Enclave) |
| mple Type /Size | : | 150X150X150 mm |
| mple grade/Age | : | M20 / 28 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| te of test | : | 26/05/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 149.67 X 151.47 X 151.03 | 22670 | 8.907 | 522.9 | 23.1 | 23.2 |
| 2 | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.17 X 149.13 X 149.85 | 22545 | 8.691 | 516.4 | 22.9 | |
| 3 | Drain Bottom Raft - Urdu School Road (Anam Enclave) | M20 | 28/04/2022 | 26/05/2022 | 151.85 X 150.15 X 149.82 | 22801 | 8.484 | 538.6 | 23.6 | |

he results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B B M P Bangalore-560024

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2022

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 06-05-2022

: Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 11/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 151.45 X 150.73 X 149.27 | 22829 | 8.411 | 426.7 | 18.7 | 18.6 |
| Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 150.74 X 150.42 X 150.59 | 22674 | 8.454 | 422.4 | 18.6 | |
| Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 149.58 X 149.10 X 151.78 | 22303 | 8.843 | 413.8 | 18.6 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager


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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 01/06/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 06-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.41 X 149.50 X 151.96 | 22336 | 8.773 | 515.2 | 23.1 | 23.0 |
| | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.49 X 149.55 X 151.58 | 22356 | 8.286 | 492.5 | 22.0 | |
| | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 151.10 X 151.14 X 149.39 | 22837 | 8.588 | 543.8 | 23.8 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
BBMP Byatarayanapura Sub Division

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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/05/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 06-05-2022 |
| Customer ID | : | Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 11/05/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 151.11 X 151.11 X 150.72 | 22834 | 8.305 | 415.9 | 18.2 | 18.6 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 149.90 X 149.10 X 149.50 | 22351 | 8.672 | 418.8 | 18.7 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 149.10 X 150.99 X 150.58 | 22514 | 8.373 | 422.2 | 18.8 | |

The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 01/06/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 06-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.09 X 151.28 X 151.57 | 22554 | 9.039 | 536.5 | 23.8 | 23.4 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.18 X 150.85 X 150.60 | 22503 | 8.537 | 513.9 | 22.8 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 150.38 X 150.09 X 149.23 | 22569 | 8.195 | 530.2 | 23.5 | |

The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/05/2022

| | | |
|---|---|---|
| b ID | : | CP-2022-07-01-01 |
| oject Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| ency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| stomer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| te of Receipt | : | 06-05-2022 |
| stomer ID | : | Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave) |
| mple Type /Size | : | 150X150X150 mm |
| mple grade/Age | : | M20 / 7 Days Compressive Strength |
| ference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| te of test | : | 11/05/2022 |

| S. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 151.22 X 151.52 X 151.14 | 22912 | 8.806 | 421.9 | 18.4 | 18.3 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 150.03 X 151.39 X 149.44 | 22713 | 8.433 | 420.0 | 18.5 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 151.85 X 151.21 X 150.17 | 22961 | 8.261 | 413.9 | 18.0 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 01/06/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 06-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 150.75 X 151.41 X 151.76 | 22825 | 8.781 | 535.2 | 23.4 | 23.3 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 150.86 X 149.72 X 149.12 | 22588 | 8.968 | 518.3 | 22.9 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 151.71 X 150.24 X 150.32 | 22792 | 8.265 | 534.0 | 23.4 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
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B.B.M.P Bangalore-560024

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/05/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 06-05-2022 |
| Customer ID | : | Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 11/05/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 149.68 X 150.40 X 150.00 | 22512 | 8.451 | 417.1 | 18.5 | 18.7 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 149.35 X 151.30 X 149.71 | 22597 | 8.470 | 422.5 | 18.7 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 11/05/2022 | 150.37 X 151.23 X 151.40 | 22741 | 8.895 | 428.1 | 18.8 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 01/06/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 06-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Opposite Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 151.12 X 150.31 X 150.66 | 22715 | 8.485 | 542.0 | 23.9 | 23.1 |
| 2 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.62 X 149.34 X 149.48 | 22344 | 8.979 | 492.1 | 22.0 | |
| 3 | Drain Bottom Raft - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 04/05/2022 | 01/06/2022 | 149.68 X 150.86 X 149.95 | 22581 | 8.476 | 528.6 | 23.4 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Assistant Executive Engineer
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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/05/2022

Lab ID : CP-2022-07-01-01
Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division
Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.
Customer's Reference : BBMP/EE/BTP/WO/01/2021-22
Date of Receipt : 12-05-2022
Customer ID : Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 17/05/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 150.12 X 151.10 X 149.45 | 22684 | 8.347 | 415.6 | 18.3 | 18.6 |
| 2 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 149.33 X 151.09 X 149.44 | 22562 | 8.838 | 423.6 | 18.8 | |
| 3 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 149.74 X 149.43 X 149.99 | 22376 | 8.704 | 421.1 | 18.8 | |

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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R KARTHIK RECHAN
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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 07/06/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 12-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 150.96 X 151.67 X 151.44 | 22896 | 8.673 | 540.3 | 23.6 | 23.3 |
| 2 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 151.13 X 150.56 X 151.06 | 22755 | 8.153 | 515.5 | 22.7 | |
| 3 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 150.50 X 149.11 X 150.41 | 22442 | 8.859 | 528.8 | 23.6 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 17/05/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 12-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2022

| Sl. No | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 151.34 X 150.23 X 150.07 | 22736 | 8.984 | 431.5 | 19.0 | 18.7 |
| 2 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 150.43 X 151.83 X 149.49 | 22840 | 8.308 | 423.3 | 18.5 | |
| 3 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 151.45 X 151.91 X 149.87 | 23007 | 8.356 | 430.8 | 18.7 | |

The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanpura Sub Division
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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 07/06/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 12-05-2022 |
| Customer ID | : | Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 07/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 149.15 X 150.23 X 150.54 | 22406 | 8.248 | 517.6 | 23.1 | 22.9 |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 149.74 X 151.08 X 150.64 | 22622 | 8.371 | 510.1 | 22.5 | |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 149.80 X 151.81 X 149.42 | 22742 | 8.228 | 523.7 | 23.0 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 17/05/2022

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 12-05-2022

Customer ID : Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 151.84 X 149.51 X 151.87 | 22701 | 8.529 | 414.1 | 18.2 | 18.1 |
| 2 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 149.73 X 151.41 X 149.72 | 22670 | 8.202 | 409.2 | 18.0 | |
| 3 | Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 150.33 X 150.89 X 151.52 | 22684 | 8.226 | 410.0 | 18.1 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/06/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Owner | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Engineer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 12-05-2022 |
| Engineer ID | : | Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave) |
| Sample Type /Size | : | 150X150X150 mm |
| Concrete grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 07/06/2022 |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 151.57 X 149.01 X 149.96 | 22586 | 8.895 | 529.1 | 23.4 | 23.1 |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 151.26 X 151.78 X 150.06 | 22959 | 8.408 | 519.3 | 22.6 | |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 150.94 X 150.40 X 151.41 | 22701 | 8.840 | 526.1 | 23.2 | |

Results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 17/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 12-05-2022

: Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 17/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 149.23 X 150.83 X 150.09 | 22509 | 8.147 | 412.9 | 18.3 | 18.3 |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 151.48 X 150.92 X 150.83 | 22862 | 9.053 | 418.3 | 18.3 | |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 17/05/2022 | 150.61 X 151.30 X 149.21 | 22787 | 8.341 | 418.8 | 18.4 | |

The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560026

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 07/06/2022

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 12-05-2022

: Drain Bottom Raft -Fathima Furniture Beside Road (Anam Enclave)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 07/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 151.36 X 151.13 X 149.23 | 22874 | 8.649 | 529.4 | 23.1 | 23.1 |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 151.73 X 150.22 X 149.47 | 22793 | 8.516 | 519.9 | 22.8 | |
| Drain Bottom Raft - Fathima Furniture Beside Road (Anam Enclave) | M20 | 10/05/2022 | 07/06/2022 | 149.81 X 149.76 X 149.40 | 22436 | 9.044 | 523.1 | 23.3 | |

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

Date: 23/05/2022

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 18-05-2022

: Drain Bottom Raft - 4th Cross Road (Chikkanna Layout)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 23/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 149.54 X 150.39 X 151.58 | 22490 | 8.238 | 423.2 | 18.8 | 18.4 |
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 149.49 X 151.03 X 149.68 | 22577 | 8.237 | 410.7 | 18.2 | |
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 149.28 X 150.36 X 149.14 | 22447 | 8.510 | 405.7 | 18.1 | |

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಗಳು
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 13/06/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 18-05-2022

: Drain Bottom Raft - 4th Cross Road (Chikkanna Layout)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 13/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 13/06/2022 | 151.59 X 150.79 X 149.68 | 22858 | 8.436 | 543.6 | 23.8 | 23.3 |
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 13/06/2022 | 149.56 X 150.31 X 150.85 | 22479 | 8.644 | 511.7 | 22.8 | |
| Drain Bottom Raft - 4th Cross Road (Chikkanna Layout) | M20 | 16/05/2022 | 13/06/2022 | 150.84 X 151.23 X 150.05 | 22812 | 8.970 | 536.0 | 23.5 | |

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

CP-2022-07-01-01 Date: 23/05/2022

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 18-05-2022

: Drain Bottom Raft - 4th Cross Road (Chikkanna Layout)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 23/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| rain Bottom Raft - 4th Cross Road Chikkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 149.11 X 151.86 X 150.34 | 22644 | 8.565 | 413.6 | 18.3 | 18.6 |
| ain Bottom Raft - th Cross Road ikkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 149.53 X 149.31 X 150.81 | 22326 | 8.988 | 415.4 | 18.6 | |
| n Bottom Raft - h Cross Road kkanna Layout) | M20 | 16/05/2022 | 23/05/2022 | 150.00 X 150.99 X 149.42 | 22649 | 8.408 | 429.0 | 18.9 | |

obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
K KARTHIK RECHAN
Authorized Signatory
Quality Manager


****End of Report****

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R TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES
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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 09/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 04-05-2022

: Drain Side Wall - Urdu School Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 08/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Urdu School Road (Anam Enclave) | M20 | 01/05/2022 | 08/05/2022 | 150.09 X 149.50 X 151.62 | 22438 | 8.988 | 426.2 | 19.0 | 18.6 |
| Drain Side Wall - Urdu School Road (Anam Enclave) | M20 | 01/05/2022 | 08/05/2022 | 151.15 X 151.16 X 149.91 | 22849 | 8.541 | 421.0 | 18.4 | |
| Drain Side Wall - Urdu School Road (Anam Enclave) | M20 | 01/05/2022 | 08/05/2022 | 150.59 X 150.46 X 151.53 | 22658 | 9.044 | 413.7 | 18.3 | |

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
Assistant Executive Engineer
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B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 30/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 04-05-2022

: Drain Side Wall - Urdu School Road (Anam Enclave)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 29/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm$^2$) | Average Compressive Strength (N/mm$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Side Wall - School Road Enclave) | M20 | 01/05/2022 | 29/05/2022 | 151.00 X 149.91 X 151.07 | 22637 | 8.180 | 530.8 | 23.5 | 23.4 |
| Side Wall - School Road Enclave) | M20 | 01/05/2022 | 29/05/2022 | 150.08 X 151.39 X 151.31 | 22721 | 8.169 | 518.1 | 22.8 | |
| Side Wall - School Road Enclave) | M20 | 01/05/2022 | 29/05/2022 | 151.48 X 149.21 X 149.46 | 22603 | 8.902 | 541.9 | 24.0 | |

obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 04/06/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 09-05-2022

: Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 04/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 04/06/2022 | 151.92 X 151.85 X 151.23 | 23070 | 8.971 | 544.5 | 23.6 | 23.3 |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 04/06/2022 | 151.56 X 150.33 X 151.55 | 22784 | 8.561 | 508.4 | 22.3 | |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 04/06/2022 | 149.97 X 149.55 X 150.05 | 22427 | 8.541 | 537.2 | 24.0 | |

Results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division — Date: 04/06/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

Reference : 09-05-2022

: Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave)

: 150X150X150 mm

Size : M20 / 28 Days Compressive Strength

Age : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

BIS codes : 04/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Side Wall - ma Furniture posite Road am Enclave) | M20 | 07/05/2022 | 04/06/2022 | 150.23 X 151.95 X 151.18 | 22827 | 9.084 | 528.8 | 23.2 | 23.1 |
| Side Wall - ma Furniture posite Road am Enclave) | M20 | 07/05/2022 | 04/06/2022 | 150.67 X 150.99 X 151.24 | 22750 | 9.061 | 502.7 | 22.1 | |
| Side Wall - ma Furniture posite Road am Enclave) | M20 | 07/05/2022 | 04/06/2022 | 151.32 X 150.50 X 149.69 | 22773 | 8.937 | 545.2 | 23.9 | |

obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Byatarayanapura Sub Division
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Quality Manager

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

CP-2022-07-01-01

Date: 14/05/2022

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 09-05-2022

: Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 14/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 151.88 X 150.49 X 149.78 | 22856 | 8.348 | 427.2 | 18.7 | 18.7 |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 150.93 X 149.36 X 151.86 | 22543 | 8.652 | 427.7 | 19.0 | |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 150.98 X 150.25 X 150.05 | 22685 | 8.800 | 420.5 | 18.5 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division — Date: 14/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 09-05-2022

: Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 14/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 149.10 X 150.23 X 149.30 | 22399 | 8.938 | 417.5 | 18.6 | 18.4 |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 151.50 X 150.73 X 150.97 | 22835 | 8.559 | 420.5 | 18.4 | |
| Drain Side Wall - Fathima Furniture Opposite Road (Anam Enclave) | M20 | 07/05/2022 | 14/05/2022 | 150.63 X 149.60 X 151.59 | 22536 | 8.235 | 407.6 | 18.1 | |

Results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro.
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Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024


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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 10/06/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 16-05-2022

: Drain Side Wall - Fathima Furniture Beside Road (Anam Enclave)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 10/06/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Side Wall - ma Furniture Road (Anam Enclave) | M20 | 13/05/2022 | 10/06/2022 | 150.01 X 151.28 X 149.93 | 22694 | 8.774 | 529.1 | 23.3 | 23.0 |
| Side Wall - ma Furniture Road (Anam Enclave) | M20 | 13/05/2022 | 10/06/2022 | 151.83 X 150.69 X 149.58 | 22880 | 8.728 | 517.2 | 22.6 | |
| Side Wall - ma Furniture Road (Anam Enclave) | M20 | 13/05/2022 | 10/06/2022 | 150.47 X 150.07 X 150.51 | 22581 | 8.498 | 523.9 | 23.2 | |

obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP Bangalore-560092

CIVIL Pro Sig..... Date..... BANGALORE

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 20/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 16-05-2022

: Drain Side Wall - Fathima Furniture Beside Road (Anam Enclave)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 20/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - Fathima Furniture Beside Road (Anam Enclave) | M20 | 13/05/2022 | 20/05/2022 | 150.62 X 149.73 X 151.75 | 22552 | 8.349 | 420.7 | 18.7 | 18.5 |
| Drain Side Wall - Fathima Furniture Beside Road (Anam Enclave) | M20 | 13/05/2022 | 20/05/2022 | 151.97 X 150.75 X 150.73 | 22910 | 8.239 | 419.6 | 18.3 | |
| Drain Side Wall - Fathima Furniture Beside Road (Anam Enclave) | M20 | 13/05/2022 | 20/05/2022 | 149.43 X 150.39 X 151.56 | 22472 | 8.291 | 418.3 | 18.6 | |

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2022-07-01-01

: Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Date: 26/05/2022

: Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

: BBMP/EE/BTP/WO/01/2021-22

: 21-05-2022

: Drain Side Wall - 4th Cross Road (Chikkanna Layout)

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 26/05/2022

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Side Wall - 4th Cross Road kkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.83 X 150.83 X 151.55 | 22598 | 9.056 | 422.5 | 18.7 | 18.8 |
| Side Wall - 4th Cross Road kkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.19 X 151.30 X 151.70 | 22572 | 8.149 | 424.5 | 18.8 | |
| Side Wall - 4th Cross Road kkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.92 X 150.80 X 150.46 | 22607 | 8.369 | 427.2 | 18.9 | |

ults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬಾ...

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Certificate No.: TC-5548

# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 16/06/2022

| | | |
|---|---|---|
| Job ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 21-05-2022 |
| Customer ID | : | Drain Side Wall - 4th Cross Road (Chikkanna Layout) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 16/06/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.20 X 150.40 X 149.02 | 22440 | 8.247 | 516.5 | 23.0 | 22.8 |
| | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.06 X 150.61 X 150.99 | 22450 | 8.119 | 497.5 | 22.2 | |
| | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.47 X 150.46 X 150.39 | 22489 | 8.276 | 525.2 | 23.4 | |

The results obtained are satisfactory as per standard requirements.

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Quality Manager

Assistant Executive Engineer
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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-07-01-01

Date: 26/05/2022

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 21-05-2022

Customer ID : Drain Side Wall - 4th Cross Road (Chikkanna Layout)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.96 X 151.01 X 150.67 | 22644 | 8.857 | 428.8 | 18.9 | 18.6 |
| 2 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 150.76 X 151.13 X 151.02 | 22784 | 8.100 | 419.0 | 18.4 | |
| 3 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.69 X 149.24 X 151.76 | 22340 | 8.924 | 412.8 | 18.5 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 16/06/2022

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 21-05-2022 |
| Customer ID | : | Drain Side Wall - 4th Cross Road (Chikkanna Layout) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 16/06/2022 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 151.92 X 149.54 X 151.91 | 22717 | 8.384 | 539.0 | 23.7 | 23.0 |
| 2 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.09 X 149.44 X 149.18 | 22281 | 8.905 | 494.4 | 22.2 | |
| 3 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.64 X 151.76 X 151.98 | 22710 | 8.779 | 523.3 | 23.0 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 21-05-2022 |
| Customer ID | : | Drain Side Wall - 4th Cross Road (Chikkanna Layout) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 7 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 26/05/2022 |

Date: 26/05/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 150.58 X 149.35 X 151.46 | 22489 | 9.077 | 422.3 | 18.8 | 18.8 |
| 2 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 151.53 X 150.99 X 151.38 | 22880 | 8.220 | 427.4 | 18.7 | |
| 3 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 151.83 X 149.28 X 149.61 | 22666 | 9.045 | 428.1 | 18.9 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 21-05-2022 |
| Customer ID | : | Drain Side Wall - 4th Cross Road (Chikkanna Layout) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 16/06/2022 |

Date: 16/06/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 151.92 X 151.27 X 150.36 | 22980 | 9.074 | 540.3 | 23.5 | 23.0 |
| 2 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 151.92 X 150.51 X 151.50 | 22865 | 8.524 | 506.7 | 22.2 | |
| 3 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.11 X 151.44 X 151.98 | 22581 | 9.049 | 529.6 | 23.5 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2022-07-01-01

Date: 26/05/2022

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 21-05-2022

Customer ID : Drain Side Wall - 4th Cross Road (Chikkanna Layout)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/05/2022

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 151.90 X 150.67 X 149.23 | 22887 | 8.422 | 433.8 | 19.0 | 18.7 |
| 2 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 150.43 X 150.74 X 151.84 | 22676 | 8.216 | 424.7 | 18.7 | |
| 3 | Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 26/05/2022 | 149.52 X 151.59 X 151.02 | 22666 | 8.520 | 416.8 | 18.4 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| | : CP-2022-07-01-01 | Date: 16/06/2022 |
| Name | : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division | |
| | : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. | |
| Customer's Reference | : BBMP/EE/BTP/WO/01/2021-22 | |
| Date of Receipt | : 21-05-2022 | |
| Customer ID | : Drain Side Wall - 4th Cross Road (Chikkanna Layout) | |
| Sample Type /Size | : 150X150X150 mm | |
| Sample grade/Age | : M20 / 28 Days Compressive Strength | |
| Reference to BIS codes | : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5 | |
| Date of test | : 16/06/2022 | |

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 151.98 X 149.37 X 151.98 | 22701 | 8.346 | 539.0 | 23.7 | 23.4 |
| Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.42 X 150.30 X 151.27 | 22458 | 8.125 | 509.7 | 22.7 | |
| Drain Side Wall - 4th Cross Road (Chikkanna Layout) | M20 | 19/05/2022 | 16/06/2022 | 149.07 X 150.22 X 151.92 | 22393 | 8.891 | 530.6 | 23.7 | |

The results obtained are satisfactory as per standard requirements.

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# TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

| | | |
|---|---|---|
| Lab ID | : | CP-2022-07-01-01 Date: 22-04-2022 |
| Project Name | : | Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division |
| Agency | : | Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045. |
| Customer's Reference | : | BBMP/EE/BTP/WO/01/2021-22 |
| Date of Receipt | : | 18-04-2022 |
| Sample Type/Size | : | Solid concrete blocks size (400X150X200)mm |
| Reference to BIS codes | : | IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10) |
| Date of test | : | 18-04-2022 |

BLOCK DENSITY:

| Sl. No. | Measurement of overall Dimensions of Individual Blocks | | | Overall Volume of the Block in Cubic Centimetres | Weight of Oven Dried Block in Kilograms to the nearest 10 Gram | Block Density in Kg/cum*$10^6$ | Avg.Block Density in (Kg/cum) | As per IS 2185(Part 1) :2005 (RA 2010) |
|---|---|---|---|---|---|---|---|---|
| | Length | Breadth | Height | | | | | |
| | mm | mm | mm | ($Cm^3$) | Kg | $Kg/m^3$ | $Kg/m^3$ | |
| 1 | 402 | 151 | 203 | 12323 | 22.205 | 1802.0 | 1806.3 | Not less than 1800$Kg/m^3$ |
| 2 | 404 | 148 | 198 | 11839 | 22.328 | 1886.0 | | |
| 3 | 402 | 152 | 200 | 12221 | 21.154 | 1731.0 | | |

WATER ABSORPTION:

| Sl. No. | Wet weight after water absorption | Dry weight (Oven dry) | Water Absorption | Avg.Water Absorption | As per IS 2185(Part 1):2005 (RA 2010) |
|---|---|---|---|---|---|
| | kg | kg | % | % | |
| 1 | 33.91 | 32.25 | 4.89 | 4.25 | Shall not be more than 10% by mass |
| 2 | 33.57 | 32.14 | 4.28 | | |
| 3 | 33.44 | 32.24 | 3.59 | | |



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Date: 22-04-2022

DIMENSION ANALYSIS

| Sl.no | Length mm | Breadth mm | Height mm | Requirement as per IS 2185(Part 1):2005 |
|---|---|---|---|---|
| 1 | 401 | 153 | 201 | Length : ± 5mm<br>Breadth : ± 3mm<br>Height : ± 3mm |
| 2 | 403 | 153 | 202 | |
| 3 | 403 | 151 | 199 | |
| 4 | 403 | 153 | 202 | |
| 5 | 402 | 153 | 201 | |
| 6 | 400 | 151 | 201 | |
| 7 | 400 | 152 | 200 | |
| 8 | 401 | 152 | 199 | |
| 9 | 401 | 153 | 203 | |
| 10 | 401 | 153 | 200 | |
| 11 | 400 | 150 | 202 | |
| 12 | 401 | 153 | 201 | |
| 13 | 401 | 152 | 200 | |
| 14 | 400 | 152 | 199 | |
| 15 | 403 | 149 | 199 | |
| 16 | 402 | 150 | 200 | |
| 17 | 400 | 149 | 202 | |
| 18 | 400 | 151 | 203 | |
| 19 | 399 | 152 | 200 | |
| 20 | 400 | 152 | 201 | |
| Average of 20 | **401** | **152** | **201** | |



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Lab ID : CP-2022-07-01-01

Date: 22-04-2022

COMPRESSIVE STRENGTH:

| Sl. No. | Size of solid block | | Area | Failure Load | Compressive strength | Average Compressive strength |
|---|---|---|---|---|---|---|
| | Length | Breadth | | | | |
| | mm | mm | ($mm^2$) | (KN) | $N/mm^2$ | ($N/mm^2$) |
| 1 | 400 | 153 | 61055 | 286.8 | 4.7 | 4.7 |
| 2 | 403 | 153 | 61549 | 284.6 | 4.6 | |
| 3 | 403 | 151 | 60656 | 290.8 | 4.8 | |
| 4 | 403 | 153 | 61522 | 290.7 | 4.7 | |
| 5 | 402 | 153 | 61390 | 282.8 | 4.6 | |
| 6 | 400 | 151 | 60485 | 288.9 | 4.8 | |
| 7 | 400 | 152 | 60712 | 285.4 | 4.7 | |
| 8 | 401 | 152 | 61205 | 289.1 | 4.7 | |

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

| Compressive strength | | |
|---|---|---|
| Grade | Minimum average | Minimum Individual units. |
| C (5.0) | 5.00 $N/mm^2$ | 4.00 $N/mm^2$ |
| C (4.0) | 4.00 $N/mm^2$ | 3.20 $N/mm^2$ |

* The Results Obtained are Satisfactory as per Standard Requirements

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

# TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2022-07-01-01 Date: 26-05-2022

Project Name : Improvements to Roads and Drains at Bharathnagara, Sadiq Layout, Anjanadru Layout Balance Roads and Surrounding Area in Ward No. 06 Byatarayanapura Sub Division

Agency : Sri. K Lakshmi Narayana Reddy, No:688, 1st Floor, Vyalikaval Society, Near Chaitanya School, Veeranapalya, Bangalore-560045.

Customer Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 24-05-2022

Type of Mix : GSB (Granular Sub Base)

Date of test : 24-05-2022

Oven Dry Weight : 10000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0.0 | 100.0 | 100 |
| 53 | 997 | 997 | 10.0 | 90.0 | 80-100 |
| 26.5 | 1685 | 2682 | 26.8 | 73.2 | 55-90 |
| 9.5 | 1292 | 3974 | 39.7 | 60.3 | 35-65 |
| 4.75 | 1490 | 5464 | 54.6 | 45.4 | 25-55 |
| 2.36 | 2456 | 7920 | 79.2 | 20.8 | 20-40 |
| 0.425 | 1020 | 8940 | 89.4 | 10.6 | 10-25 |
| 0.075 | 659 | 9599 | 96.0 | 4.0 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 21.33% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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Sig.....R'KARTHIK RECHAN
Date.....Authorized Signatory
Quality Manager

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*End of Report*

Assistant Executive Engineer
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|---|---|---|---|---|---|
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| 53 | 997 | 997 | 10.0 | 90.0 | 80-100 |
| 26.5 | 1685 | 2682 | 26.8 | 73.2 | 55-90 |
| 9.5 | 1292 | 3974 | 39.7 | 60.3 | 35-65 |
| 4.75 | 1490 | 5464 | 54.6 | 45.4 | 25-55 |
| 2.36 | 2456 | 7920 | 79.2 | 20.8 | 20-40 |
| 0.425 | 1020 | 8940 | 89.4 | 10.6 | 10-25 |
| 0.075 | 659 | 9599 | 96.0 | 4.0 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 21.33% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro.

Sig.....R'KARTHIK RECHAN

Date.....Authorized Signatory

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Date of Receipt : 24-05-2022

Type of Mix : GSB (Granular Sub Base)

Date of test : 24-05-2022

Oven Dry Weight : 10000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0.0 | 100.0 | 100 |
| 53 | 996 | 996 | 10.0 | 90.0 | 80-100 |
| 26.5 | 1689 | 2685 | 26.9 | 73.2 | 55-90 |
| 9.5 | 1296 | 3981 | 39.8 | 60.2 | 35-65 |
| 4.75 | 1493 | 5474 | 54.7 | 45.3 | 25-55 |
| 2.36 | 1769 | 7243 | 72.4 | 27.6 | 20-40 |
| 0.425 | 1659 | 8902 | 89.0 | 11.0 | 10-25 |
| 0.075 | 1098 | 10000 | 100.0 | 0.0 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 22.53% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
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*End of Report*

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Customer Reference : BBMP/EE/BTP/WO/01/2021-22

Date of Receipt : 24-05-2022

Type of Mix : GSB (Granular Sub Base)

Date of test : 24-05-2022

Oven Dry Weight : 10000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0.0 | 100.0 | 100 |
| 53 | 391 | 391 | 3.9 | 96.1 | 80-100 |
| 26.5 | 1801 | 2192 | 21.9 | 78.1 | 55-90 |
| 9.5 | 2911 | 5103 | 51.0 | 49.0 | 35-65 |
| 4.75 | 1601 | 6704 | 67.0 | 33.0 | 25-55 |
| 2.36 | 1563 | 8267 | 82.7 | 17.3 | 20-40 |
| 0.425 | 536 | 8803 | 88.0 | 12.0 | 10-25 |
| 0.075 | 956 | 9759 | 97.6 | 2.4 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 23.56% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

* The results obtained are satisfactory as per standard requirements.

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Sig.....R.KARTHIK RECHAN
Date.....Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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